

## REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104592322

Date: February 11, 2021

REPORT NO. 104592322LAX-002C

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZESQ-18-LED35-SO  
LED MODEL NO. LUMILEDS 2835  
DRIVER MODEL NO. OSRAM OTI 85W G2

RENDERED TO

PRUDENTIAL LIGHTING  
1774 EAST 21ST  
LOS ANGELES, CA 90058

STATEMENT OF LIMITATION: This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

TEST: Electrical and Photometric tests as required to the IESNA test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-01120100-3.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

DESCRIPTION OF SAMPLE: The client submitted one Prototype sample of model number GazeSQ-18-LED35-SO. The sample was received by Intertek on February 8, 2021, in undamaged condition and one sample was tested as received. The sample designation was LAN2102080745-002 .

DATES OF TESTS: February 11, 2021

## SUMMARY

Model No.:	GazeSQ-18-LED35-SO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4235
Total Power (W)	35.43
Luminaire Efficacy (LPW)	119.5
Power Factor	0.981

## EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	02/11/21
AC Source	CW1251P	000944	VBU	VBU	02/11/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/11/21
Tape Measure	33-428	001491	VBU	VBU	02/11/21
Magnetic Level	581-9	001610	10/21/20	10/21/21	02/11/21
Temp. & RH Meter	971	002137	10/13/20	10/13/21	02/11/21
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	02/11/21

## TEST METHODS

### Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IESNA LM-79.

### Photometric and Electrical Measurements – Distribution Method

A LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the Xitron or Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

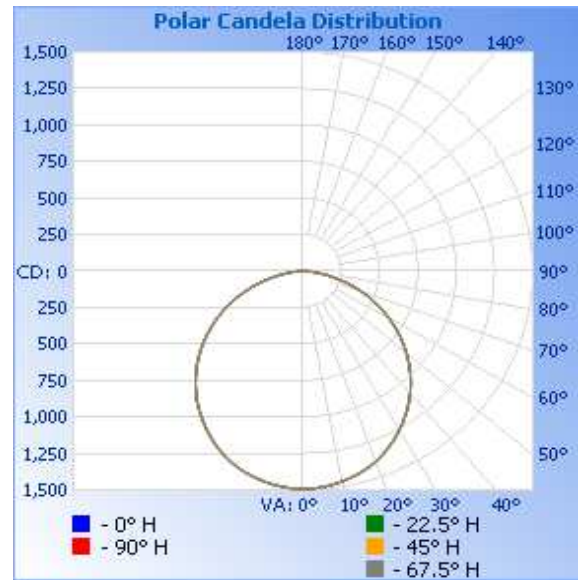
## RESULTS OF TEST

### Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage {Vac}	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (LPW)
LAN2102080745-002	Up	120.0	301.0	35.43	0.981	4235	119.5

### Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1494	1494	1494	1494	1494
5	1484	1485	1486	1485	1485
10	1463	1464	1464	1464	1463
15	1432	1432	1433	1432	1432
20	1387	1388	1388	1388	1388
25	1327	1329	1329	1328	1328
30	1257	1256	1257	1257	1256
35	1176	1178	1178	1177	1177
40	1089	1089	1089	1089	1088
45	990	990	990	990	989
50	883	883	883	883	882
55	771	770	770	770	769
60	651	651	651	651	651
65	528	528	528	527	527
70	402	402	402	402	402
75	276	277	277	277	276
80	159	159	160	160	159
85	64	64	64	64	64
90	0	0	0	0	0

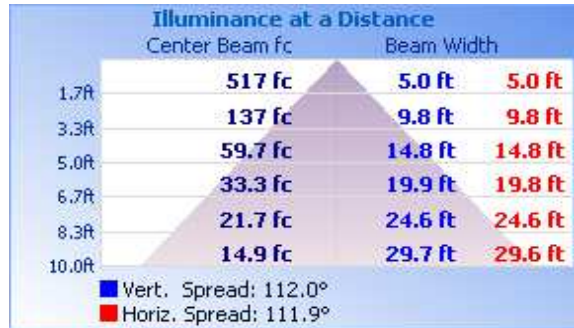


## RESULTS OF TEST (cont'd)

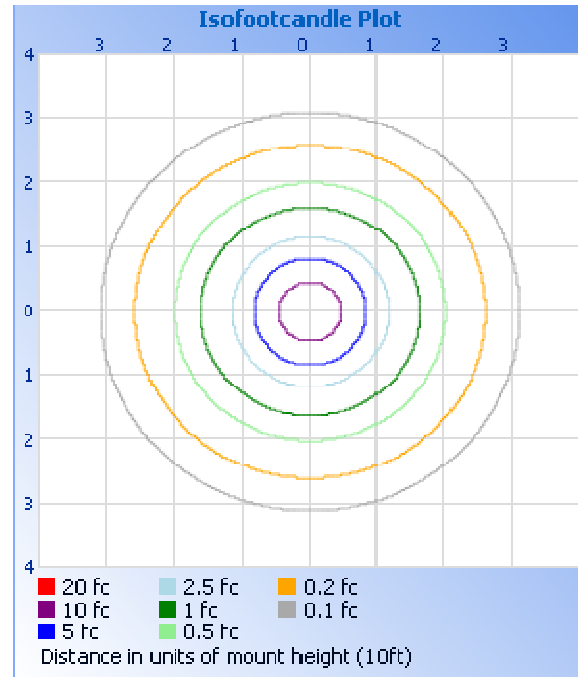
### Illumination Plots

Mounting Height: 10 ft.

#### Illuminance - Cone of Light



#### Isoillumination Plot



#### Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1157	27.3
0-40	1893	44.7
0-60	3344	79.0
60-90	891.0	21.0
0-90	4235	100.0
90-180	0.0	0.0
0-180	4235	100.0

#### Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	141.0	3.3
10-20	404.1	9.5
20-30	611.9	14.4
30-40	736.3	17.4
40-50	763.2	18.0
50-60	687.5	16.2
60-70	521.5	12.3
70-80	293.4	6.9
80-90	76.1	1.8

#### Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38

PICTURES (not to scale)



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

A handwritten signature in black ink, appearing to read 'Kellen Murakami'.

Kellen Murakami  
Technician  
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Vladimir Kozak'.

Vladimir Kozak  
Engineering Supervisor  
Lighting Division